

Applicant : Tasuku Honjo et al.  
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**REMARKS**

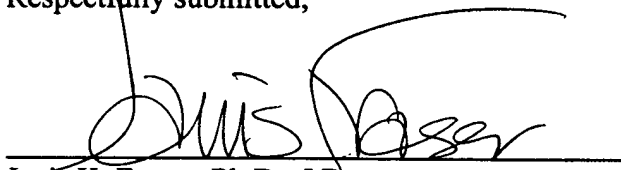
Applicants hereby submit that the enclosures fulfill the requirements under 37 C.F.R. §1.821-1.825. The amendments in the specification merely insert sequence identifiers in the specification, correct typographical errors, and replace the original Sequence Listing with an amended substitute Sequence Listing wherein the general information has been updated to reflect the information corresponding to the instant application. Further, the sequence disclosure in Figure 5 is now included in the Sequence Listing as SEQ ID NO:36. No new matter has been added.

Attached hereto is a marked-up version of the changes made to the specification by the current amendment.

Please apply any charges or credits to Deposit Account No. 06-1050, referencing attorney docket no. 06501-088001.

Respectfully submitted,

Date: Jan. 2, 2002

  
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**“Version With Markings to Show Changes Made”**

In the specification:

Paragraph beginning at page 50, line 10, has been amended as follows:

FIG. 5 shows the homology between an amino acid sequence of mouse AID protein (SEQ ID NO:2) and that of mouse APOBEC-1 (SEQ ID NO:36).

Paragraph beginning at page 52, line 18, has been amended as follows:

FIG. 22 schematically shows a degree of homology between an amino acid sequence of mouse AID protein (SEQ ID NO:2) and that of human AID protein (SEQ ID NO:8). The parts with a closed box are cytidine and deoxycytidylate deaminase zinc-binding region which is an AID protein active region.

Paragraph beginning at page 68, line 26, has been amended as follows:

PCR was conducted using an expression vector prepared by inserting cDNA coding a full length mouse AID protein, prepared in Example 5 into a plasmid vector pGEX4T1, as a template with a pair of primers (Primer 170: SEQ ID NO:16 and primer 181: SEQ ID NO:17[9], according to the standard method described in the above.

Paragraph beginning at page 70, line 16, has been amended as follows:

As a result, human AID protein (SEQ ID NO:8) has extremely high homology in amino acid sequences with a mouse AID protein (SEQ ID NO:2) (FIG. 22). Amino acid sequences in Cytidine and deoxycytidylate deaminase zinc-binding region which is an active region in AID protein (both mouse AID and human AID [SEQ ID NO:] amino acid residues 56 to 94 of SEQ ID NOs:2 and 8, respectively) were completely consistent (conserved) between mouse and human.